

GenCore version 4.5  
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OM nucleic - nucleic search, using sw model

Run on: December 3, 2000, 19:26:40 : Search time 727.75 Seconds  
(without alignments)  
3184.422 Million cell updates/sec

Title: US-09-227-881-3

Perfect score: 6169

Sequence: 1 atctgttcagttacatc.....cttgccctccatcagtcag 6169

Scoring table:

IDENTITY-NUC  
Gapop 10.0 , Gapext 1.0

Searched: 480022 seqs, 187831343 residues

Total number of hits satisfying chosen parameters: 960044

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

N-Geneseq\_36: \*  
1: /cgn2\_2/gcgdata/geneseq/geneseqn/NA1980.DAT: \*  
2: /cgn2\_2/gcgdata/geneseq/geneseqn/NA1981.DAT: \*  
3: /cgn2\_2/gcgdata/geneseq/geneseqn/NA1982.DAT: \*  
4: /cgn2\_2/gcgdata/geneseq/geneseqn/NA1983.DAT: \*  
5: /cgn2\_2/gcgdata/geneseq/geneseqn/NA1984.DAT: \*  
6: /cgn2\_2/gcgdata/geneseq/geneseqn/NA1985.DAT: \*  
7: /cgn2\_2/gcgdata/geneseq/geneseqn/NA1986.DAT: \*  
8: /cgn2\_2/gcgdata/geneseq/geneseqn/NA1987.DAT: \*  
9: /cgn2\_2/gcgdata/geneseq/geneseqn/NA1988.DAT: \*  
10: /cgn2\_2/gcgdata/geneseq/geneseqn/NA1989.DAT: \*  
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13: /cgn2\_2/gcgdata/geneseq/geneseqn/NA1992.DAT: \*  
14: /cgn2\_2/gcgdata/geneseq/geneseqn/NA1993.DAT: \*  
15: /cgn2\_2/gcgdata/geneseq/geneseqn/NA1994.DAT: \*  
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19: /cgn2\_2/gcgdata/geneseq/geneseqn/NA1998.DAT: \*  
20: /cgn2\_2/gcgdata/geneseq/geneseqn/NA1999.DAT: \*  
21: /cgn2\_2/gcgdata/geneseq/geneseqn/NA2000.DAT: \*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	6169	100.0	6169	19	Human TIGR upstream
2	5274.4	85.5	5299	19	Human TIGR promote
3	5273.8	85.5	5300	19	Human TIGR promote
4	5273.8	85.5	5300	19	Human TIGR promote
5	5273.8	85.5	5300	19	Human TIGR promote
6	5273.8	85.5	5300	19	Human TIGR promote
7	5273.8	85.5	5300	19	Human TIGR promote
8	5261.4	85.3	5304	19	Human TIGR promote
9	2677.4	43.4	2800	21	Human TIGR promote
10	975.2	15.8	3493	19	Human TIGR promote
11	640.4	10.4	1548	19	Human TIGR promote
12	640.4	10.4	1890	20	Human TIGR promote

13	640.4	10.4	1999	20	V81910
14	640.4	10.4	1999	20	V08904
15	640.4	10.4	2000	19	V33484
16	604.4	9.8	1512	20	V08905
17	604.4	9.8	1515	21	V37974
18	603.4	9.8	1512	19	V37619
19	585.8	9.5	2800	21	V37971
20	556.6	9.0	1969	17	T30152
21	556.6	9.0	1969	19	V28331
22	539.6	8.4	1491	17	T30153
23	382.8	6.2	1473	21	V37973
24	176.4	2.9	283	15	O63862
25	175.2	2.8	162450	21	Z86967
26	174.2	2.8	282	18	T62346
27	173.6	2.8	1737	14	O44278
28	173.2	2.8	49999	20	Z23900
29	172.8	2.8	452	17	T42809
30	172.8	2.8	106746	21	A10225
31	172	2.8	2932	13	O25388
32	172	2.8	2932	20	Z32161
33	172	2.8	2932	20	Z32162
34	172	2.8	43066	21	Z36335
35	171.6	2.8	10380	18	T67164
36	171.2	2.8	21721	20	X83427
37	171.2	2.8	22976	20	X83426
38	171	2.8	54548	21	Z45596
39	170.8	2.8	2617	21	A23452
40	170.4	2.8	3234	16	O92781
41	170	2.8	15036	19	V52967
42	170	2.8	15056	21	V29933
43	169.6	2.7	2426	18	A06689
44	169	2.7	5543	18	T75284
45	168.4	2.7	11288	16	O90512

#### ALIGNMENTS

RESULT	1	
V51368		
ID	V51368	standard; DNA: 6169 BP.
XX		
AC	V51368:	
XX		
DT	27-OCT-1998	(first entry)
XX		
DE	Human TIGR upstream region and exon 1 DNA.	
XX		
KW	TIGR: trabecular meshwork induced glucocorticoid response protein; human;	
KW	diagnosis; glaucoma; polymorphism; steroid sensitivity; ss.	
XX		
OS	Homo sapiens.	
XX		
XX		
FT	Key	Location/Qualifiers
FT	exon	5301..5940
FT		/*tag= a
FT		/number=1
FT	CDS	5337..6169
FT		/*tag= b
FT		/product= "TIGR"
FT	Intron	5941..6169
FT		/*tag= c
FT		/number=1
FT		/note= "partial intron sequence"
XX		
XX	W09832850-A1.	
XX	30-JUL-1998.	
XX	09-JAN-1998;	98WO-US00468.
XX	26-SEP-1997;	97US-0938669.

PR 28-JAN-1997: 9705-0791154.  
XX  
PA (REGC ) UNIV CALIFORNIA.  
XX  
PI Chen H, Chen P, Nguyen TD, Polansky JR.  
XX  
XX WPI: 1998-427946/36.  
DR  
XX use of TIGR nucleic acid sequences - used for, e.g. developing  
PT products for diagnosis, prognosis and treatment of glaucoma  
XX  
XX  
PS Claim 37: Fig 3: 105pp; English.  
XX  
CC This sequence is a trabecular meshwork induced glucocorticoid response  
CC protein (TIGR) upstream region and exon 1. This DNA sequence can be used  
CC in a method for diagnosing glaucoma in a patient. The method involves the  
CC detection of polymorphisms whose presence is predictive of a mutation  
CC affecting TIGR response in the patient and can be diagnostic of glaucoma  
CC or steroid sensitivity. Base substitutions and base additions upstream of  
CC and within TIGR exons can also be used to diagnose glaucoma.  
XX  
XX  
SQ Sequence 6169 BP: 1702 A; 1389 C; 1491 G; 1587 T; 0 other:  
  
Query Match 100.0%; Score 6169; DB 19; Length 6169;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 6169; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 1 atcttgcattagtttacctcaagggtctattatgaatgaataatgaataccaatgtaag 60  
DB 1 atcttgcattagtttacctcaagggtctattatgaatgaataatgaataccaatgtaag 60  
QY 61 tctataaactgtatagccccccattcggaatgtatgtctttggcaggaatgaataatca 120  
DB 61 tctataaactgtatagccccccattcggaatgtatgtctttggcaggaatgaataatca 120  
QY 121 ggaagaaggagtaaccagtttagccaagtgtccaagctgtgtctgtcttattttagtga 180  
DB 121 ggaagaaggagtaaccagtttagccaagttgtccaagctgtgtctgtcttattttagtga 180  
QY 181 cgaatgttgcctctgacagaagctatcttcacagaataacacacacacacacatgttaatc 240  
DB 181 cgaatgttgcctctgacagaagctatcttcacagaataacacacacacacacatgttaatc 240  
QY 241 catcaaacggagctaaagaacaggaaatgagatgaggaacttggccaaggaaatgccag 300  
DB 241 catcaaacggagctaaagaacaggaaatgagatgaggaacttggccaaggaaatgccag 300  
QY 301 ggaagcacaataatgataaataaactttcccttgttttaatttcaggaataatg 360  
DB 301 ggaagcacaataatgataaataaactttcccttgttttaatttcaggaataatg 360  
QY 361 atgaggaaccacaataatgataaataaactttcccttgttttaatttcaggaataatg 420  
DB 361 atgaggaaccacaataatgataaataaactttcccttgttttaatttcaggaataatg 420  
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DB 421 taataagtaattgttccttgggaagagaccccatgtgagcttgatggaaatggaa 480  
QY 481 aaacgtcaaaagcatgatactgatacatcccaagtgtattatattttaaaccagat 540  
DB 481 aaacgtcaaaagcatgatactgatacatcccaagtgtattatattttaaaccagat 540  
QY 541 ggcatacctctgggagagcatgatacatcccaagtgtattatattttaaaccagat 600  
DB 541 ggcatacctctgggagagcatgatacatcccaagtgtattatattttaaaccagat 600  
QY 601 agcaaaatcaaaatctccgcaaatgcaagaagaataatgggaggaatgggaggaatcttcaaac 660  
DB 601 agcaaaatcaaaatctccgcaaatgcaagaagaataatgggaggaatgggaggaatcttcaaac 660  
QY 661 agtgatagagcagttgacatgttcgcaacacccctccctctaaccagggaacacaaaa 720

DB 661 agtgatagagcagttgacatgttcgcaacacccctccctctaaccagggaacacaaaa 720  
QY 721 attgatgggctaagccctgacttcaagaaggaaatataagaaaactgaagcaaaacaaaa 780  
DB 721 attgatgggctaagccctgacttcaagaaggaaatataagaaaactgaagcaaaacaaaa 780  
QY 781 gacatggttaaaaggcaacagacacatgttgagctctcaagaagcagagctccctcaga 840  
DB 781 gacatggttaaaaggcaacagacacatgttgagctctcaagaagcagagctccctcaga 840  
QY 841 ggaagccctgaagcatttgccttaagaaggccaagttctttaaaggaaacttaagaaccc 900  
DB 841 ggaagccctgaagcatttgccttaagaaggccaagttctttaaaggaaacttaagaaccc 900  
QY 901 ttgaagaatcatgaatatttaaacatttaagaatatataaaataatgctgataatcag 960  
DB 901 ttgaagaatcatgaatatttaaacatttaagaatatataaaataatgctgataatcag 960  
QY 961 ttgaagaatcatgaatatttaaacatttaagaatatataaaataatgctgataatcag 1020  
DB 961 ttgaagaatcatgaatatttaaacatttaagaatatataaaataatgctgataatcag 1020  
QY 1021 ggaataggccaagaatcattagaataactgtgtcccatcctaacttttcagaatgac 1080  
DB 1021 ggaataggccaagaatcattagaataactgtgtcccatcctaacttttcagaatgac 1080  
QY 1081 tgcataagccctccacacagaagccgagtgtgtcgtgacccaacacacacacacacacaa 1140  
DB 1081 tgcataagccctccacacagaagccgagtgtgtcgtgacccaacacacacacacacacaa 1140  
QY 1141 gtgcctcaacccattgtttaaagctgatacccaatgaagttcccatataacatgcaacctccc 1200  
DB 1141 gtgcctcaacccattgtttaaagctgatacccaatgaagttcccatataacatgcaacctccc 1200  
QY 1201 tgtgagcccatcccgctccacagaagttctcccaacttaagactctgacatacagatgt 1260  
DB 1201 tgtgagcccatcccgctccacagaagttctcccaacttaagactctgacatacagatgt 1260  
QY 1261 taagaccaaagaactccgtgaagggtgaagggtcgtgtgtcctaaccctcgtatgtcctac 1320  
DB 1261 taagaccaaagaactccgtgaagggtgaagggtcgtgtgtcctaaccctcgtatgtcctac 1320  
QY 1321 acctgagctcacatgcaacctctgcctcccaaggttcaagaatcttctctgtcctcagctcc 1380  
DB 1321 acctgagctcacatgcaacctctgcctcccaaggttcaagaatcttctctgtcctcagctcc 1380  
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DB 1381 cgcgtagctgggaactacagcgcaagcccgctaattcttgaatgttagtagagatgg 1440  
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DB 1441 gtttcacatattagcccgctgtgttaactcctgacactcaaggtgatacccccaccc 1500  
QY 1501 agcctcctaaagtgcctgggattacaagcaatgagtcacccgcccggcccaagggtcagttg 1560  
DB 1501 agcctcctaaagtgcctgggattacaagcaatgagtcacccgcccggcccaagggtcagttg 1560  
QY 1561 ttaataaggaataacttgatggttacttaaaccaacagagggaacacagacaaagctgtga 1620  
DB 1561 ttaataaggaataacttgatggttacttaaaccaacagagggaacacagacaaagctgtga 1620  
QY 1621 taatttcaggatctcttggatggggaatggtgcacatgagctgcgcctcagttccagagc 1680  
DB 1621 taatttcaggatctcttggatggggaatggtgcacatgagctgcgcctcagttccagagc 1680  
QY 1681 cactgttccctacacttcttcctccatcccatcttcaaggctaaagttaacatttatt 1740  
DB 1681 cactgttccctacacttcttcctccatcccatcttcaaggctaaagttaacatttatt 1740  
QY 1741 caacatgcttctgtgtaagcctccacatcgttactgaaataagatatacaataatag 1800

Db	1741	caacatgctctttgvtgtaagagctccacatcgtctactcgaaataagatatatacaataactg	1800
Qy	1801	ttccactttgaggcaccactgctgctgtgtaataaggagagagacataccccagagactcct	1860
Db	1801	ttccactttgaggcaccactgctgctgtgtaataaggagagagacataccccagagactcct	1860
Qy	1861	tgaagcccccgacagaggtctccctccacagctggggagagccctgcagaacccccgggtcc	1920
Db	1861	tgaagcccccgacagaggtctccctccacagctggggagagccctgcagaacccccgggtcc	1920
Qy	1921	tggggtctcttgagcaaaccccgccagcccgctgaccttggtttttgtttatcaactcttag	1980
Db	1921	tggggtctcttgagcaaaccccgccagcccgctgaccttggtttttgtttatcaactcttag	1980
Qy	1981	gaccgctgtctctctactctctgtgtgtactcgttcatctcatccagacatcatctgacaat	2040
Db	1981	gaccgctgtctctctactctctgtgtgtactcgttcatctcatccagacatcatctgacaat	2040
Qy	2041	tacttgatctatcatctctccagacacccagagacaaatgtgtgagcaaaagctcatctgc	2100
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Qy	2101	ccctacctctgtgagagttagcagttctctcatctgagagagctgtcagaaagaaatitaatagca	2160
Db	2101	ccctacctctgtgagagttagcagttctctcatctgagagagctgtcagaaagaaatitaatagca	2160
Qy	2161	gccaacttaaaacccagctgtctgaagaagaaagaaataaacccacatcttgaaagatctgctgc	2220
Db	2161	gccaacttaaaacccagctgtctgaagaagaaagaaataaacccacatcttgaaagatctgctgc	2220
Qy	2221	agcatcccttaaaccaagggccacactcccttaagcgccctgtctgtccatctgtcccggaag	2280
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Qy	2281	cccccaagcccgagttcttcacaagcctccctctcatcagtcacagagctgtcagactggcct	2340
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Qy	2341	gctctgctctcccgctgagatctgtctgtgcatctgagagcttgagagctctctgtccacggct	2400
Db	2341	gctctgctctcccgctgagatctgtctgtgcatctgagagcttgagagctctctgtccacggct	2400
Qy	2401	ccagaaagagaaatvgagagagaaactagcttaacgagaaatctcgagagggagacagtcttc	2460
Db	2401	ccagaaagagaaatvgagagagaaactagcttaacgagaaatctcgagagggagacagtcttc	2460
Qy	2461	cccagagagaaagggccctccacagctccagagaaatcccaagaggtggggtctgcagagag	2520
Db	2461	cccagagagaaagggccctccacagctccagagaaatcccaagaggtggggtctgcagagag	2520
Qy	2521	tgggagcgtgtggggtcgagcggtgtgctgaagagcaggaaggtgaaaaaggccaaggctcgaa	2580
Db	2521	tgggagcgtgtggggtcgagcggtgtgctgaagagcaggaaggtgaaaaaggccaaggctcgaa	2580
Qy	2581	gctgcgccagatgttcaggtgtgttcacgggggtcggaagttcttcgtgtctccgtgtgagc	2640
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Qy	2641	cttttctatcttctctgtcttgagagagaaagaaatctattctatgaaaggaatgcagtttc	2700
Db	2641	cttttctatcttctctgtcttgagagagaaagaaatctattctatgaaaggaatgcagtttc	2700
Qy	2701	ataaagctcagctgttaaaatctcagaggtgtgcaatggtttctccctccagaaagcctttat	2760
Db	2701	ataaagctcagctgttaaaatctcagaggtgtgcaatggtttctccctccagaaagcctttat	2760
Qy	2761	ttaaatvgaaataatagaaagcgagctcaattctctaaggccgtttaatctcagaaagatgtac	2820
Db	2761	ttaaatvgaaataatagaaagcgagctcaattctctaaggccgtttaatctcagaaagatgtac	2820
Qy	2821	tggagctcttctcttccatgtctctctgggcaactaccagcccggtgtgtgaactgtgctta	2880
Db	2821	tggagctcttctcttccatgtctctctgggcaactaccagcccggtgtgtgaactgtgctta	2880
Qy	2881	tggagctcttctcttccatgtctctctgggcaactaccagcccggtgtgtgaactgtgctta	2880
Db	2881	tggagctcttctcttccatgtctctctgggcaactaccagcccggtgtgtgaactgtgctta	2880

OY	3961	agaaatagaatctttagagcaaacctggtctctccaaactcgtgaagtgaatctgcgaagcc	4020
Db	3961	agaaatagaatctttagagcaaacctggtctctccaaactcgtgaagtgaatctgcgaagcc	4020
OY	4021	agttcggaatacatttacttccaaagatgtgaacactgtgttgatataacaacataaagt	4080
Db	4021	agttcggaatacatttacttccaaagatgtgaacactgtgttgatataacaacataaagt	4080
OY	4081	tgctcaaaagggcaatcatattctcgaatgtgcataaagttaactctcgaagtttggatat	4140
Db	4081	tgctcaaaagggcaatcatattctcgaagtggtcgaagttaactctcgaagtttggatat	4140
OY	4141	ttattgtgctattgtgcatttgccttttttttctctcttggtttcttaatgttaagaag	4200
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OY	4201	ggattattaaacctcgaatccagaagaagcgttgaaatttgatagagaaaaattcaattc	4260
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OY	4261	tgatttttaaccaactcttaactaaattbaaacttta ttccatttgcgaatagagccataa	4320
Db	4261	tgatttttaaccaactcttaactaaattbaaacttta ttccatttgcgaatagagccataa	4320
OY	4321	ctcaaaagtggaataaagaatgaacctggaattttgtctatccaatgaaatccaaact	4380
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OY	4441	ctctgaaatttagaacctccctgcctggaatctgtttttaacatataaataaactgtttaa	4500
Db	4441	ctctgaaatttagaacctccctgcctggaatctgtttttaacatataaataaactgtttaa	4500
OY	4501	attcttgatatttggatataatcatatttcataatcatttgccttctgttaactataatt	4560
Db	4501	attcttgatatttggatataatcatatttcataatcatttgccttctgttaactataatt	4560
OY	4561	ataatattgaaaacaatctctcgaagaagaattccccaagttccacaagaatgaagttctcg	4620
Db	4561	ataatattgaaaacaatctctcgaagaagaattccccaagttccacaagaatgaagttctcg	4620
OY	4621	catgcaacacacacagagtaagaacctgaattagaagcttaacatltgacatltggtccctga	4680
Db	4621	catgcaacacacacagagtaagaacctgaattagaagcttaacatltgacatltggtccctga	4680
OY	4681	tgcaaaagctggaatttagaaaagttctccccaaggtatacaagttgttttaaagctaaggtg	4740
Db	4681	tgcaaaagctggaatttagaaaagttctccccaaggtatacaagttgttttaaagctaaggtg	4740
OY	4741	aggggggaaatactgcgcgctctataagaatgacctcccggaagccgtgtgaagttgctgc	4800
Db	4741	aggggggaaatactgcgcgctctataagaatgacctcccggaagccgtgtgaagttgctgc	4800
OY	4801	ctctgtctctcgctggtgctgttattctctctgcctcgtcgaagttcctaagaagacttgtt	4860
Db	4801	ctctgtctctcgctggtgctgttattctctctgcctcgtcgaagttcctaagaagacttgtt	4860
OY	4861	ggatctccgaatctcttagcaatgaagcctgtgcacagctgcaagttcctaagaatgttcgaag	4920
Db	4861	ggatctccgaatctcttagcaatgaagcctgtgcacagctgcaagttcctaagaatgttcgaag	4920
OY	4921	tgaattggaataataaactataaataataactgtttgaaatacgaacacagaatgacctgg	4980
Db	4921	tgaattggaataataaactataaataataactgtttgaaatacgaacacagaatgacctgg	4980
OY	4981	tgtaaagctgtgtcaagctgt	5040
Db	4981	tgtaaagctgtgtcaagctgt	5040
OY	5041	ttaggaactatattatggtgtatgtggtgcataaatttggatgtgtctttttaaaagaatact	5100

Db	5041	taagaaacatactatctgggagctacggggtgcataaaatgggaagttctcttcaaaaagaaatactc	5100
Qy	5101	caaaagagctctctggaagagttatcttctaaagaatctctgacagcgtgaaaggcaaaccc	5160
Db	5101	caaaagagctctctggaagagttatcttctaaagaatctctgacagcgtgaaaggcaaaccc	5160
Qy	5161	ccctgtgcacagcccccacacagctccacgtgcacacctctgtctccccaatgaaggctg	5220
Db	5161	ccctgtgcacagcccccacacagctccacgtgcacacctctgtctccccaatgaaggctg	5220
Qy	5221	gctccccaagtataataaaacctctctggagagctcgggcataaggacagagccacccctc	5280
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Qy	5281	cagagcacctctccagcaaaagacagctctcccaagagagagagctccacaagcctctgcaatga	5340
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Qy	5401	ttctgcgcctctgcctgtgttggaatgtgggggcccagagcaactcagctctcaggaggaagccaatg	5460
Db	5401	ttctgcgcctctgcctgtgttggaatgtgggggcccagagcaactcagctctcaggaggaagccaatg	5460
Qy	5461	accaaagatgagccagatgcacagatataacccttcagctgtggccagctcccaatgaatccagctgc	5520
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Qy	5581	gcttagaaccttgagagccaccaaaagctccagctccacccctctggagagagctctctcccaaat	5640
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Qy	5641	tgaaccttgagacaaagctgcgcacagagccccaagagagacccaacagagaggggagctgtg	5700
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Qy	5701	gcaaccctgagagcgagagctggagaccagctgtgaaaaccacaacagagagctctggagactgctc	5760
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DB 5280 ccaaggacactctcaagcaag 5299

RESULT 3  
VS1362  
ID VS1362 standard; DNA; 5300 BP.  
XX  
AC VS1362;  
XX  
DT 27-OCT-1998 (first entry)  
XX  
DE Human TIGR promoter mutant TIGRm1 DNA.  
XX  
KW TIGR: trabecular meshwork induced glucocorticoid response protein; human;  
diagnosis: glaucoma; polymorphism; steroid sensitivity; mutant; ss.  
XX  
OS Homo sapiens.  
XX  
OS Synthetic.  
XX  
FH Key location/Qualifiers  
FT mutation 4337  
FT /tag= a  
FT /note= "Wild type C is replaced by G"  
XX  
PD 30-JUL-1998.  
XX  
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XX PN  
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XX 30-JUL-1998.  
XX  
XX 09-JAN-1998; 98WO-US00468.  
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XX PR 26-SEP-1997; 97US-0938669.







[illegible]

Accession	Sequence	Length
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D8	ccaacagactctcggaaagtattcttcaagaattctctgcacgctgaagcaacc	5159
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D8	ggcccccaagatatataaacctctcttgagcctcgaggcctgagcagcaagaagccacct	5279
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D8	ccagcacactcttcagcacagc	5300

Query Match	Score	DB	Length
55.5%	5273.8	DB 19	5300

Best Local Similarity 99.9%; Pred. No. 0;  
Matches 5297; Conservative 0; Mismatches 2; Indels 2; Gaps 2;

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DB 1 atcttcttcagtttaccctcagggctactatgaaatgaaatgataaccaatgtgaaag 60  
QY 61 tccataaactgatatgctcccatctcgatgatatgtctcttgagagatgataagatca 120  
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RESULT 5
ID V51365 standard: DNA: 5300 BP.
XX
AC V51365;
```

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XX 27-OCT-1998 (first entry)
DT Human TIGR promoter mutant TIGRmt4 DNA.
XX
DE TIGR: trabecular meshwork induced glucocorticoid response protein: human:
KW diagnosis; glaucoma; polymorphism; steroid sensitivity; mutant; ss.
XX Homo sapiens.
OS Synthetic.
XX
FH Key Location/Qualifiers
FT mutation 4256
FT /tag= a
FT /note= "Wild-type A is replaced by G"
XX
PN W09832850-A1.
XX
PD 30-JUL-1998.
XX
PF 09-JAN-1998: 98MO-US00468.
XX
PR 26-SEP-1997: 97US-0938669.
XX
PR 28-JAN-1997: 97US-0791154.
XX
PA (REGC ) UNIV CALIFORNIA.
XX
PI Chen H, Chen P, Nguyen TD, Polansky JR.
XX
DR MPI: 1998-427946/36.
XX
PT Use of TIGR nucleic acid sequences - used for, e.g. developing
PT products for diagnosis, prognosis and treatment of glaucoma
XX
PS Disclosure: Fig 2: 105pp: English.
XX
CC This sequence is a trabecular meshwork induced glucocorticoid response
CC protein (TIGR) promoter mutant, TIGRmt4, which is used in a method for
CC diagnosing glaucoma in a patient. The method involves the detection of
CC polymorphisms whose presence is predictive of a mutation affecting TIGR
CC response in the patient and can be diagnostic of glaucoma or steroid
CC sensitivity. Base substitutions and base additions upstream of and within
CC TIGR exons can also be used to diagnose glaucoma.
XX
SO Sequence 5300 BP; 1481 A; 1152 C; 1236 G; 1431 T; 0 other:

Query Match 85.5%; Score 5273.8; DB 19; Length 5300;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 5297; Conservative 0; Mismatches 2; Indels 2; Gaps 2;
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Dh 361 atgagagacaaataatgaataatgaanaaagcgtccaggaanaaagatgttccaaatcgg 420  
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Oy 2461 ctccagagggaaagggccttccacgttccaggaagaattccaggaaggttggagatcgaaggag 2520  
Dh 2461 ctccagagggaaagggccttccacgttccaggaagaattccaggaaggttggagatcgaaggag 2520



OY	2521	tgvggacgcvtgvggcvtgagcgggtgctctgaaagccaggaagctgaaagagccagagctcgaa	2550
Db	2521	tgvggacgcvtgvggcvtgagcgggtgctctgaaagccaggaagctgaaagagccagagctcgaa	2550
OY	2581	gcgcgccagagctgcaagtgtctgtcaacgggggcctgggagagcttccgcgtctccgcgtgagc	2640
Db	2581	gcgcgccagagagctcaagtgtctgtcaacgggggcctgggagagcttccgcgtctccgcgtgagc	2640
OY	2641	ctttctatcttcttcgcgtctgagaggaagagaaagctcatcttcatgaagggatgcaggttcc	2700
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OY	2701	ataaagctcagctgtataaattccaagggctgtgcatgggtttctctccacgaagcccttat	2760
Db	2701	ataaagctcagctgtataaattccaaggggtgtgcatgggtttctctccacgaagcccttat	2760
OY	2761	ctaatgggaataatggaagagagctcatctcccaaggccgttaattccacggaagaggtgac	2820
Db	2761	ctaatgggaataatggaagagagctcatctcccaaggccgttaattccacggaagaggtgac	2820
OY	2821	tgagagctcttctctcactgctctcgtgagcaacatccacgaagccctctgctgtgagacttgcta	2880
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OY	3541	gttccagagagccagaggtcatatctgtgaggggaaaaaatacaggtccaagggaaatcgaggaa	3600
Db	3541	gttccagagagccagaggtcatatctgtgaggggaaaaaatacaggtccaagggaaatcgaggaa	3600
OY	3601	cctgagtttctaatacctatatttctcccttccaagctcgagtaattctcgagcaagctacaag	3660

Db	3601	ccgattccctaactatactatcttcccttaacaagccgaagtaacttcgagcaagccacaag	3600
Qy	3661	gtagaaacttgaggtctgtaaatattacttaagttctcccttaetggaacccctttctcgt	3720
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Qy	3721	ggagttagcagcacaaagggcaatcccggttctcttaacagagaanaacatctctaagag	3780
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Qy	3781	taagccaaacaggtttcaagcccttaggtcttgctgactatagattggttttttgaanaat	3840
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Qy	3841	cattccagcgaatgtttaactctgattccagaaatgagactgaatcccttgccagctg	3900
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Oy 5220 ggtcccccagatataataaactctctgtgagctcgtggaatgagccagaaagccacccat 5279
Db 5220 ggtcccccagatataataaactctctgtgagctcgtggaatgagccagaaagccacccat 5279
Oy 5280 ccagggacccctcagacagc 5300
Db 5280 ccagggacccctcagacagc 5300

RESULT 6
V51366
ID V51366 standard: DNA; 5300 BP.
XX
AC V51366:
XX
DT 27-OCT-1998 (first entry)
XX
DE Human TIGR promoter mutant TIGRm5 DNA.
XX
KM TIGR: trabecular meshwork induced glucocorticoid response protein; human;
KM diagnosis: glaucoma; polymorphism; steroid sensitivity; mutant; ss.
XX
OS Homo sapiens.
OS Synthetic.
XX
XX Key Location/Qualifiers
FH mutation 4262
FT /*tag- a
XX /note- "Wild-type G is replaced with A"
XX
PN M09832850-A1.
XX
PD 30-JUL-1998.
XX
PF 09-JAN-1998: 98MO-US00468.
XX
PR 26-SEP-1997: 97US-0938669.
PR 28-JAN-1997: 97US-0791154.
XX
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PA (REGC ) UNIV CALIFORNIA.
XX
PI Chen H, Chen P, Nguyen TD, Polansky JR:
XX
DR WPI: 1998-427946/36.
XX
XX
PT Use of TIGR nucleic acid sequences - used for, e.g. developing
XX products for diagnosis, prognosis and treatment of glaucoma
XX
PS Disclosure: Fig 2: 105pp: English.
XX
XX This sequence is a trabecular meshwork induced glucocorticoid response
XX protein (TIGR) promoter mutant, TIGRm5, which is used in a method for
XX diagnosing glaucoma in a patient. The method involves the detection of
XX polymorphisms whose presence is predictive of a mutation affecting TIGR
XX response in the patient and can be diagnostic of glaucoma or steroid
XX sensitivity. Base substitutions and base additions upstream of and within
XX TIGR exons can also be used to diagnose glaucoma.
XX
XX Sequence 5300 BP: 1483 A; 1152 C; 1234 G; 1431 T; 0 other:

Query Match 85.5%; Score 5273.8; DB 19; Length 5300;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 5297; Conservative 0; Mismatches 2; Indels 2; Gaps 2;

Oy 1 attctgttcagttacccagagctatctgaatgaaatgagataccaatgtgaag 60
Db 1 attctgttcagttacccagagctatctgaatgaaatgagataccaatgtgaag 60
Oy 61 tccataaactgtatagcctccatctcgatgtatgtcttggcaggaatgaataaactca 120
Db 61 tccataaactgtatagcctccatctcgatgtatgtcttggcaggaatgaataaactca 120
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Db 121 ggaagaaggagatccacgttagacagatgtccaggtgtgtgtgtgtgtgtgtgtgtgtgtgt 180
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Oy 421 taattaaatattgttccctgtggaagagacctcattgtgagcttgatgtggaataatgga 480
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DB	781	gacatc	ggttaaa	aggcaacacaga	acaatttgaa	gaccttcaagaagcagatgccccctacga	840	
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DB	1741	caacat	gtctttct	gtgtaag	ccctccaca	atcgtta	actgaataagagatatac	1800

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Qy	2701	ataaagctcagctgtctaaaatctccagggvtgvgcatgvggtttctcctctccagaaagcctttat	2760
Db	2701	ataaagctcagctgtctaaaatctccagggvtgvgcatgvggtttctcctctccagaaagcctttat	2760
Qy	2761	ctaatvgggaatatatvgaaacgagctcaatctctcagggcgttcaatctcaacggaaagaaatgac	2820
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|||||  
Db 2941 ggttcggccgttcgacccggtggcgaagtctctctctccctgggccaatgcttctctact 3000  
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Oy 5280 ccaggcaccctcagcagcagc 5300
Db 5280 ccaggcaccctcagcagcagc 5300

RESULT 7
V51367 standard; DNA: 5300 BP.
AC V51367:
DT 27-OCT-1998 (first entry)
XX Human TIGR promoter variant TIGRv1 DNA.
XX
XX TIGR: trabecular meshwork induced glucocorticoid response protein; human;
KW diagnosis; glaucoma; polymorphism; steroid sensitivity; mutant; ss.
OS Homo sapiens.
OS Synthetic.
XX
XX Key Location/Qualifiers
FH mutation 4406
FT mutation /tag= A
FT mutation /note= "Wild-type A is replaced by G"
XX
XX W09832850-A1.
XX
XX 30-JUL-1998.
XX
XX 09-JAN-1998; 98MO-US00468.
XX
XX 26-SEP-1997; 97US-0938669.
XX 28-JAN-1997; 97US-0791154.
XX
XX (REGC ) UNIV CALIFORNIA.
XX
XX Chen H, Chen P, Nguyen TD, Polansky JR;
XX WPI: 1998-427946/36.
XX
XX Use of TIGR nucleic acid sequences - used for, e.g. developing
XX products for diagnosis, prognosis and treatment of glaucoma
XX
XX Disclosure: Fig 2; 105pp: English.
XX
XX This sequence is a trabecular meshwork induced glucocorticoid response
XX protein (TIGR) promoter variant, TIGRv1, which is used in a method for
XX diagnosing glaucoma in a patient. The method involves the detection of
XX polymorphisms whose presence is predictive of a mutation affecting TIGR
XX response in the patient and can be diagnostic of glaucoma or steroid
XX sensitivity. Base substitutions and base additions upstream of and within
XX TIGR exons can also be used to diagnose glaucoma.
XX
XX Sequence 5300 BP; 1481 A; 1152 C; 1236 G; 1431 T; 0 other;
XX
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Oy 1 atcttctcagtttaacctcagggcctatctatgaatgaatgagataaaccaatgtgaag 60
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Oy 61 tccctaaactgtatagcctccatctcgatgtatgtctcttggcagagatgaataagatca 120
Db 61 tccctaaactgtatagcctccatctcgatgtatgtctcttggcagagatgaataagatca 120
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Qy	3001	atlaaaagacctgtgcagctctcggtgtctgtgaaacactcctcctgtatctctgtgaggg	3060
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Qy	3061	ggatgtctgaagaggggaaagagggcagaagctctgagacgctcgagccaaaggggggtgaggg	3120
Db	3061	ggatgtctgaagaggggaaagagggcagaagctctgagacgctcgagccaaaggggggtgaggg	3120
Qy	3121	ggaacgtgagagggcagaagcgttgggtgtctcatatagctccctacagatcacgtacgaactc	3180
Db	3121	ggaacgtgagagggcagaagcgttgggtgtctcatatagctccctacagatcacgtacgaactc	3180
Qy	3181	cagagccagagccacaatgtctctcaggaagactcacaatgaacccaacagccacatttctct	3240
Db	3181	cagagccagagccacaatgtctctcaggaagactcacaatgaacccaacagccacatttctct	3240
Qy	3241	tccttaagcatagacaatgtgcatttgccaataaccaaagaaatgacagactaacgtgt	3300
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[illegible]



Dh 3241 tccctaagcagtagacacatgcatcttgccaaataacaaagaagtcagagactaacgtgt 3300  
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Db 3301 ggtagcttcttgcttgcatcttcaaaaactgggccaagtcagaaatgcccgaattcg 3360  
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Oy 3421 agtgcacctgcagcgagggaggaagaaagagagagatgtagatgagcaagaaag 3480  
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Oy 5280 ccagagcactcagacagc 5300  
Db 5280 ccagagcactcagacagc 5300

RESULT 8  
V51364  
ID V51364 standard; DNA; 5304 BP.  
XX  
AC V51364;  
XX  
DT 27-OCT-1998 (first entry)

XX Human TIGR promoter mutant TIGRmt3 DNA.  
DE TIGR: trabecular meshwork induced glucocorticoid response protein; human;  
KW diagnosis: glaucoma; polymorphism; steroid sensitivity; mutant; ss.  
XX Homo sapiens.  
OS Synthetic.  
XX  
FH Key Location/Qualifiers  
FT mutation 4997..5002  
FT /\*tag= a  
PN /note= "Wild-type TG is replaced with TGTGTG"  
XX W09832850-A1.  
XX 30-JUL-1998.  
XX 09-JAN-1998; 98WO-US00468.  
XX 26-SEP-1997; 97US-0938669.  
XX 28-JAN-1997; 97US-0791154.  
XX (REGC ) UNIV CALIFORNIA.  
XX Chen H, Chen P, Nguyen TD, Polansky JR;  
XX WPI: 1998-427946/36.  
XX  
XX Use of TIGR nucleic acid sequences - used for, e.g. developing  
PT products for diagnosis, prognosis and treatment of glaucoma  
XX  
XX Disclosure: Fig 2; 105pp; English.  
XX  
XX This sequence is a trabecular meshwork induced glucocorticoid response  
CC protein (TIGR) promoter mutant, TIGRmt3, which is used in a method for  
CC diagnosing glaucoma in a patient. The method involves the detection of  
CC polymorphisms whose presence is predictive of a mutation affecting TIGR  
CC response in the patient and can be diagnostic of glaucoma or steroid  
CC sensitivity. Base substitutions and base additions upstream of and within  
CC TIGR exons can also be used to diagnose glaucoma.  
XX  
XX Sequence 5304 BP: 1482 A; 1152 C; 1237 G; 1433 T; 0 other;  
SQ  
Query Match 85.3%; Score 5261.4; DB 19; Length 5304;  
Best Local Similarity 99.9%; Pred. No. 0;  
Matches 5298; Conservative 0; Mismatches 1; Indels 6; Gaps 3;  
OY 1 atcttgctcaggttactcagggctatctatgaatggaatgagataaacaatgtaag 60  
DB 1 atcttgctcaggttactcagggctatctatgaatggaatgagataaacaatgtaag 60  
OY 61 tccctataaactgtatagccctccatccggaatgtaatgcttggcaggaatgataaagaatca 120  
DB 61 tccctataaactgtatagccctccatccggaatgtaatgcttggcaggaatgataaagaatca 120  
OY 121 ggaagaagaatataccaaagttagccaagtgcaggcgtgtctgtctttatttaagga 180  
DB 121 ggaagaagaatataccaaagttagccaagtgcaggcgtgtctgtctttatttaagga 180  
OY 121 ggaagaagaatataccaaagttagccaagtgcaggcgtgtctgtctttatttaagga 180  
DB 121 ggaagaagaatataccaaagttagccaagtgcaggcgtgtctgtctttatttaagga 180  
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DB 181 cagatgttgcctccagcagaagctatcttccaggaatacaatcacaatattgttaaatc 240  
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DB 241 catcaaacaggagctaaagaacaaggaaatgagatgggcaactgtgccaaaggaaatgccaag 300  
OY 301 gagagcaataatgatgataaataaactttccctctgttttaattccaggaaataatg 360  
DB 301 gagagcaataatgatgataaataaactttccctctgttttaattccaggaaataatg 360

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DB 361 atgagaccacaatacaatgaataagaacaagctcagaaataaagaatgtttccaaattgg 420  
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DB 421 taattaaagtatttcccttgggaagagacctccatgtgagctgtatgtggaaatgggaa 480  
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Db 3421 agtgaactcgcagcgccaggggaggaagaaagagagatgtgtatgtgagcaagaag 3480  
Qy 3481 acagattctcatcaagggcaggtggaatctgaccaaaggaattatagctccagctgatactctg 3540  
Db 3481 acagattctcatcaagggcaggtggaatctgaccaaaggaattatagctccagctgatactctg 3540  
Qy 3541 gttctagagggcagggcttatatgtgtgagggaaaaaatacaagtccaagggagtcaggaga 3600  
Db 3541 gttctagagggcagggcttatatgtgtgagggaaaaaatacaagtccaagggagtcaggaga 3600  
Qy 3601 cctgattcttaatactatatttctcttacaagctgagtaattctctgagcaagtcacaag 3660  
Db 3601 cctgattcttaatactatatttctcttacaagctgagtaattctctgagcaagtcacaag 3660

Oy	3661	gtaagtaactgagcgtctgaagaattactagttcttccttataggaaaccttttctctgt	3720
Db	3661	gtatgaactctgagcgtctgaagaattactagttcttccttataggaaaccttttctctgt	3720
Oy	3721	ggaagctaacgacaaagaaggcaatcccgcttctctttaacggagaanaaacatcccaag	3780
Db	3721	ggaagctaacgacaaagaaggcaatcccgcttctctttaacggagaanaaacatcccaag	3780
Oy	3781	taaaagccaaagaatctcaagccttagtctctgcacataatgatttggtttttgaaat	3840
Db	3781	taaaagccaaagaatctcaagccttagtctctgcacataatgatttggtttttgaaat	3840
Oy	3841	catttcagcgtctgttactatctgattcagaaaaatgagactagtaaccttgytcaagct	3900
Db	3841	catttcagcgtctgttactatctgattcagaaaaatgagactagtaaccttgytcaagct	3900
Oy	3901	taaaacaacaccacgcttgtaaatgtctcaagttcagagtttaacttgacagaacatcaaa	3959
Db	3901	taaaacaacaccacatctgttaaatgtctcaagttcagagtttaacttgacagaacatcaaa	3960
Oy	3960	aagaaatagaalcttcttaagacaaactgtgtctctcaacatctggaggctgcagag	4019
Db	3961	aagaaatagaalcttcttaagacaaactgtgtctctcaacatctggaggctgcagag	4019
Oy	4020	cagtttggaaaatcttactctcaacagatctgaacacgtgtgtgttatcaacaataag	4079
Db	4020	cagtttggaaaatcttactctcaacagatctgaacacacgtgtgtgttatcaacaataag	4079
Oy	4080	ttgcctcaaggacatctatcttaacagtggtcttaagttactctgcagcttttgata	4139
Db	4080	ttgcctcaaggacatctatcttaacagtggtcttaagttactctgcagcttttgata	4139
Oy	4140	tttaattggtcattgcatttgcatttgcatttctctcttggatttbatgataagca	4199
Db	4140	tttaattggtcattgcatttgcatttgcatttctctcttggatttbatgataagca	4199
Oy	4200	gggatatttaacctaagctccagaagaacctgtgaattgaatgagagaaaaattacatt	4259
Db	4200	gggatatttaacctaagctccagaagaacctgtgtgaattgaatgagagaaaaattacatt	4259
Oy	4260	ttgtttttacaacctctcaactaaatttaacattttatccattggagaaataagcataa	4319
Db	4260	ttgtttttacaacctctcaactaaatttaacattttatccattggagaaataagcataa	4319
Oy	4320	actcaaaagtgttaataacagbaccgtgatttgcattacaataagaatacacagacat	4379
Db	4320	actcaaaagtgttaataacagbaccgtgatttgcattacaataagaatacacagacat	4379
Oy	4380	tttatatacatattcacgttgttgagataagttgtaagtgaaatatatttactcaaaact	4439
Db	4380	tttatatacatattcacgttgttgagataagttgtaagtgaaatatatttactcaaaact	4439
Oy	4440	actttgaaatttagacccctcgctgagactgttttaacatatataaacaattttaa	4499
Db	4440	actttgaaatttagacccctcgctgagactgttttaacatatataaacaattttaa	4499
Oy	4500	aattttgataltttgtaataatcatatttcaatltacatttgccttgytaactatatt	4559
Db	4500	aattttgataltttgtaataatcatatttcaatltacatttgccttgytaactatatt	4559
Oy	4560	tatatatttgaaaacaacattcttcgagagaaggtccccaattaccacaatgagttctg	4619
Db	4560	tatatatttgaaaacaacattcttcgagagaaggtccccaattaccacaatgagttctg	4619
Oy	4620	gcatgacacacacaaagggtgaagaatcattttagaagctaaacttacaatttgcctgag	4679
Db	4620	gcatgacacacacaaagggtgaagaatcattttagaagctaaacttacaatttgcctgag	4679
Oy	4680	atgcgaagactgaaatttgaaagatctctcccaagaatgacacagttgttttaagctaggg	4739
Db	4680	atgcgaagactgaaatttgaaagatctctcccaagaatgacacagttgttttaagctaggg	4739

[illegible]



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Db 1919 gtgcacgtctgcagcgtcttggtggtcagatgcagctgtccagctgtcgtcttcgtgct 1978
Oy 5410 gccgtgtgtgtggtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 5469
Db 1979 gccgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 2038
Oy 5470 gccgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 5529
Db 2039 gccgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 2098
Oy 5530 gccgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 5589
Db 2099 gccgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 2158
Oy 5590 tggaggtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 5649
Db 2159 tggaggtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 2218
Oy 5650 accaggtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 5709
Db 2219 accaggtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 2278
Oy 5710 ggcgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 5769
Db 2279 ggcgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 2338
Oy 5770 tccctccagagaaagtctcagctctgtgagagaaagagaaagcagcctcagcctcagcctcagc 5829
Db 2339 tccctccagagaaagtctcagctctgtgagagaaagagaaagcagcctcagcctcagcctcagc 2388
Oy 5830 atctgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 5889
Db 2389 atctgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 2448
Oy 5890 gtccctccagagaaagtctcagctctgtgagagaaagagaaagcagcctcagcctcagcctcagc 5949
Db 2459 gtccctccagagaaagtctcagctctgtgagagaaagagaaagcagcctcagcctcagcctcagc 2518
Oy 5950 cagaggtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 6009
Db 2519 cagaggtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 2578
Oy 6010 ctccagagcctc---cctgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 6065
Db 2579 ctccagagcctcctcgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 2638
Oy 6066 aattaaagaaagcaca-cgatacctctcagatattactacgaatttgcctcctcagagct 6124
Db 2639 aattaaagaaagcacaagcagatcactcaattactactagaatttagctcctcagagct 2698
Oy 6125 tcaattagatagtggtcagagctcctgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 6169
Db 2699 tcaattagatagtggtcagagctcctgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 2743

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RESULT 10  
V37618  
ID V37618 strand: DNA; 3493 BP.  
XX  
AC V37618:  
XX  
DT 14-SEP-1998 (first entry)  
XX  
DE Human glaucoma associated GLCIA genomic sequence.  
XX  
KW Glaucoma; GLCIA; treatment: mutant; juvenile open angle glaucoma;  
XX JOAG; ss.  
XX  
OS Homo sapiens.  
XX  
FH Key Location/Qualifiers  
FT 5'UTR 1..180  
FT /\*tag= a

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FT CDS 181..3022
FT /*tag= b
FT /product= "GLCIA protein"
FT /note= "contains Introns"
FT exon 181..784
FT /*tag= c
FT /number= 1
FT Intron 785..1426
FT /*tag= d
FT /number= 1
FT exon 1427..1552
FT /*tag= e
FT /number= 2
FT Intron 1553..2237
FT /*tag= f
FT /number= 2
FT exon 2238..3019
FT /*tag= g
FT /number= 3
FT 3'UTR 3020..3493
FT /*tag= h
XX
XX PN W09820131-A1.
XX PD 14-MAY-1998.
XX PE 07-NOV-1997; 97MO-US20702.
XX PR 21-MAR-1997; 97US-0822999.
XX PR 08-NOV-1996; 96US-0748479.
XX PR 30-JAN-1997; 97US-0791347.
XX PA (IOWA ) UNIV IOWA RES FOUND.
XX
XX PI Alward WM, Sheffield V, Stone EM;
XX WPI: 1998-286947/25.
XX DR P-PSDB; W60670.
XX
XX PT New isolated gene associated with glaucoma - used to develop
XX products to determine whether a subject has, or is at risk of,
XX developing glaucoma, and for treating or preventing glaucoma
XX
XX PS Claim 1; Fig 1A-B; 116pp; English.
XX
XX CC This represents the genomic sequence of the human GLCIA gene which is
XX associated with juvenile open angle glaucoma (JOAG). The gene can be used
XX for the development of assays for identifying molecules that modulate gene
XX (agonists or antagonists) the bioactivity of a functional or mutant gene
XX or protein. Modulators may be an antibody, protein, peptide or
XX peptidomimetic or a nucleic acid, e.g. antisense sequence, ribozyme or
XX triple helix forming nucleic acid. These molecules can be administered to
XX a subject with glaucoma or at risk for developing glaucoma to prevent or
XX reduce the severity of the condition. Derivatives of GLCIA gene can be
XX used to detect lesions of the GLCIA gene which are indicative of glaucoma
XX or predisposition to glaucoma.
XX
XX SO Sequence 3493 BP; 929 A; 840 C; 840 G; 871 T; 13 other:

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Query Match 15.8%; Score 975.2; DB 19; Length 3493;  
Best Local Similarity 98.4%; Pred. No. 1,8e-216;  
Matches 1002; Conservative 0; Mismatches 11; Indels 5; Gaps 2;

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Oy 5157 ccccccgtgtcacagcccccagcctcagcgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 5216
Db 1 ccccccgtgtcacagcccccagcctcagcgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 60
Oy 5217 gctgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 5276
Db 61 gctgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 120
Oy 5277 catcaggtcacctctcagcagcagagcttccagagaaagcctcacaagcctctgca 5336

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Db      121 ccttcagagcacttcacagacagcagagcttccacagaggaagctccacaaagctctgcga 180
Oy      5337 atgaggtctctctgacagctgctgcagcttctggcctgagatgccaagctgtccagctg 5396
Db      181 atgaggtctctctgacagctgctgcagcttctggcctgagatgccaagctgtccagctg 240
Oy      5397 ctgctctctgagcctgctgctgctgctgctgctgctgctgctgctgctgctgctgctgctg 5456
Db      241 ctgctctctgagcctgctgctgctgctgctgctgctgctgctgctgctgctgctgctgctg 300
Oy      5457 aatgacacagatgctgctgctgctgctgctgctgctgctgctgctgctgctgctgctgctgctg 5516
Db      301 aatgacacagatgctgctgctgctgctgctgctgctgctgctgctgctgctgctgctgctgctg 360
Oy      5517 tgcacagacagagcagagcagatgctgctgctgctgctgctgctgctgctgctgctgctgctg 5576
Db      361 tgcacagacagagcagagcagatgctgctgctgctgctgctgctgctgctgctgctgctgctg 420
Oy      5577 caagctctgagcctgagcctgagcctgagcctgagcctgagcctgagcctgagcctgagcctgagc 5636
Db      421 caagctctgagcctgagcctgagcctgagcctgagcctgagcctgagcctgagcctgagcctg 480
Oy      5637 caatgaccttgagcctgagcctgagcctgagcctgagcctgagcctgagcctgagcctgagcctg 5696
Db      481 caatgaccttgagcctgagcctgagcctgagcctgagcctgagcctgagcctgagcctgagcctg 540
Oy      5697 ctgagcctgagcctgagcctgagcctgagcctgagcctgagcctgagcctgagcctgagcctg 5756
Db      541 ctgagcctgagcctgagcctgagcctgagcctgagcctgagcctgagcctgagcctgagcctg 600
Oy      5757 gctacacagacacacacacacacacacacacacacacacacacacacacacacacacacacacacac 5816
Db      601 gctacacagacacacacacacacacacacacacacacacacacacacacacacacacacacacac 660
Oy      5817 caagaaatgagaaatctgagcctgagcctgagcctgagcctgagcctgagcctgagcctgagcctg 5876
Db      661 caagaaatgagaaatctgagcctgagcctgagcctgagcctgagcctgagcctgagcctgagc 720
Oy      5877 agaaagggcagcctgagcctgagcctgagcctgagcctgagcctgagcctgagcctgagcctgagc 5936
Db      721 agaaagggcagcctgagcctgagcctgagcctgagcctgagcctgagcctgagcctgagc 780
Oy      5937 gaagggaaagaaatgagcctgagcctgagcctgagcctgagcctgagcctgagcctgagcctgagc 5996
Db      781 gaagggaaagaaatgagcctgagcctgagcctgagcctgagcctgagcctgagcctgagcctg 840
Oy      5997 cctgctacagcctgagcctgagcctgagcctgagcctgagcctgagcctgagcctgagcctgagc 6052
Db      841 cctgctacagcctgagcctgagcctgagcctgagcctgagcctgagcctgagcctgagcctg 900
Oy      6053 caacaagacagatgagcctgagcctgagcctgagcctgagcctgagcctgagcctgagcctgagc 6111
Db      901 caacaagacagatgagcctgagcctgagcctgagcctgagcctgagcctgagcctgagcctg 960
Oy      6112 gctccagagagcctgagcctgagcctgagcctgagcctgagcctgagcctgagcctgagcctg 6169
Db      961 gctccagagagcctgagcctgagcctgagcctgagcctgagcctgagcctgagcctgagcctg 1018

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RESULT 11
V51391
ID      V51391 standard: cDNA: 1548 BP.
XX
AC      V51391:
XX
DT      27-OCT-1998 (first entry)
XX
DE      Human TIGR cDNA.
XX
KW      TIGR: trabecular meshwork induced glucocorticoid response protein; human:
KW      diagnosis: glaucoma; polymorphism: steroid sensitivity; ss.
XX

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OS      Homo sapiens.
XX      Key      Location/Qualifiers
FH      CDS      37..1548
FT      FT      /tag=a
FT      FT      /product= TIGR
XX      MO9832850-A1.
XX      PD      30-JUL-1998.
XX      PF      09-JAN-1998; 98MO-US00468.
XX      PR      26-SEP-1997; 97US-0938669.
XX      PR      28-JAN-1997; 97US-0791154.
XX      PA      (REBC ) UNIV CALIFORNIA.
XX      PI      Chen H, Chen P, Nguyen TD, Polansky JR;
XX      PI      WPI: 1998-427946/36.
XX      DR      P-PSDB; W64669.
XX      PT      Use of TIGR nucleic acid sequences - used for, e.g. developing
XX      PT      products for diagnosis, prognosis and treatment of glaucoma
XX      PS      Claim 48; Fig 7; 105pp; English.
XX      CC      This cDNA sequence encodes a novel human trabecular meshwork induced
XX      CC      glucocorticoid response protein (TIGR) which is used in a method for
XX      CC      diagnosing glaucoma in a patient. The method involves the detection of
XX      CC      polymorphisms whose presence is predictive of a mutation affecting TIGR
XX      CC      response in the patient and can be diagnostic of glaucoma or steroid
XX      CC      sensitivity. Base substitutions and base additions upstream of and within
XX      CC      TIGR exons can also be used to diagnose glaucoma.
XX      SQ      Sequence 1548 BP; 402 A; 418 C; 431 G; 297 T; 0 other;

Query Match      10.4%; Score 640.4; DB 19; Length 1548;
Best Local Similarity 99.8%; Pred. No. 3,5e-139;
Matches 641; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Oy      5301 agagcttccagagagagcctccacagcctctgcaatgagcttctctgagcctgagcctgagc 5360
Db      1 agagcttccagagagagcctccacagcctctgcaatgagcttctctgagcctgagcctgagcctgagc 60
Oy      5361 tgcagcttgggctgagatgccaagctgtccagctgtctctctgagcctgagcctgagcctgagc 5420
Db      61 tgcagcttgggctgagatgccaagctgtccagctgtctctctgagcctgagcctgagcctgagc 120
Oy      5421 gatgtggggccagcagcctgagcctgagcctgagcctgagcctgagcctgagcctgagcctgagc 5480
Db      121 gatgtggggccagcagcctgagcctgagcctgagcctgagcctgagcctgagcctgagcctgagc 180
Oy      5481 tatacttcaatgagcctgagcctgagcctgagcctgagcctgagcctgagcctgagcctgagc 5540
Db      181 tatacttcaatgagcctgagcctgagcctgagcctgagcctgagcctgagcctgagcctgagc 240
Oy      5541 tcaatcatcataacttaacagagagacagcagcaccacacacacacacacacacacacacacacac 5600
Db      241 tcaatcatcataacttaacagagagacagcagcaccacacacacacacacacacacacacacacac 300
Oy      5601 aaagctcgatcagcctccctggagagcctccctccacaaatggaccttgagcagcagcctgagc 5660
Db      301 aaagctcgatcagcctccctggagagcctccctccacaaatggaccttgagcagcagcctgagc 360
Oy      5661 aggccccaagagacccaagagagggctgcaagagagctggacacccctggagcagcagcagcagc 5720
Db      361 aggccccaagagacccaagagagggctgcaagagagctggacacccctggagcagcagcagcagc 420
Oy      5721 gaccagctggaaacccaacacagagagctggagacgtcctacagcacaacctctccagac 5780

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Db 421 gaccagctcgaaacccaacacagagagtgtgagactgctctacagcaacctcccgagac 480
Oy 5781 aagtcagcttcggagaaagagagagagactaaagcagaagaataagaaatctggccagg 5840
Db 481 aagtcagcttcggagaaagagagagagcgaactaaaggcaagaataagaaatctggccagg 540
Oy 5841 aggttcggaagacagacagacagagagtagcaaaaggctcagaagaaggcagatgtccccaagcc 5900
Db 541 aggttcggaagacagacagacagagagtagcaaaaggctcagaagaaggcagatgtccccaagcc 600
Oy 5901 cgaagacactgctcgagctgtgctgcccacagagctccagagaaggt 5942
Db 601 cgaagacactgctcgagctgtgctgcccacagagctccagagaaggt 642

RESULT 12
X57606 ID X57606 standard; DNA: 1890 BP.
XX AC X57606;
XX DT 16-JUL-1999 (first entry)
XX DE Human TIGR/MYOC gene.
XX KW Trabecular meshwork induced glucocorticoid response; TIGR; MYOC; GLCIA;
KW locus: chromosome; detection: mutant; allele: heterozygote; mutation:
KW juvenile open-angle glaucoma; phenotype: homoallelic complementation;
KW autosomal dominant disease; homozygote; epilepsy; mental retardation;
KW haploinsufficiency; ss.
XX OS Homo sapiens.
XX PN W09916898-A1.
XX PD 08-APR-1999.
XX PF 29-SEP-1998; 98WO-CA00923.
XX PR 12-MAY-1998; 98CA-2231720.
XX PR 30-SEP-1997; 97CA-2216997.
XX PA (UYLA-) UNIV LAVAL.
XX PI Anctil JL, Cote G, Falardeau P, Morissette J, Raymond V;
XX DR WPI: 1999-263703/22.
XX DR P-PSDB: Y07393.
XX PT Molecular diagnosis of glaucomas associated with chromosome 1
XX PS Claim 1; Fig 1A-J; 66pp; English.
XX CC This sequence represents the trabecular meshwork induced glucocorticoid
XX CC response (TIGR) gene, also known as MYOC, which is mapped to the GLCIA
XX CC locus on chromosome 1q33-q35. The invention relates to the detection of
XX CC mutant and non-mutant alleles of the TIGR/MYOC gene. Juvenile open-angle
XX CC glaucoma, in a heterozygotic carrier of TIGR mutations, can be treated
XX CC by overexpression of mutated TIGR, which renders the phenotype of the
XX CC patient normal by homoallelic complementation. This method of homoallelic
XX CC complementation can be used in other autosomal dominant diseases where
XX CC mutant homozygotes are phenotypically normal, e.g. a form of epilepsy and
XX CC mental retardation linked to chromosome X, which only affects women.
XX CC The methods can also be used for treating haploinsufficiency.
XX SQ Sequence 1890 BP; 506 A; 489 C; 510 G; 385 T; 0 other;

Query Match 10.4%; Score 640.4; DB 20; Length 1890;
Best Local Similarity 99.8%; Pred. NO. 6e-139;
Matches 641; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Oy 5301 agagcttcagagaaagcaccacacagcctctgaaatgaggtctctctgtgacagtgc 5360
```

```
Db 1 agagcttcagagaaagcaccacacagcctctgaaatgaggtctctctgtgacagtgc 60
Oy 5361 tgcagcttcggagctgagatgacagctgttccagctgtgcttcggcctgctgtgtgg 5420
Db 61 tgcagcttcggagctgagatgacagctgttccagctgtgcttcggcctgctgtgtgg 120
Oy 5421 gatctggggccagagacagctcagctcaggaagccaatgtgacagatgtgacag 5480
Db 121 gatctggggccagagacagctcagctcaggaagccaatgtgacagatgtgacag 180
Oy 5481 tataccttcagtgtggtccagctcccaatgaatccagctgtccagagcagagccagt 5540
Db 181 tataccttcagtgtggtccagctcccaatgaatccagctgtccagagcagagccagt 240
Oy 5541 tcagtcacccaataacttaacagagacagcagcaccacacagcttagagctggaagccacc 5600
Db 241 tcagtcacccaataacttaacagagacagcagcaccacacagcttagagctggaagccacc 300
Oy 5601 aaagctcagctcagctcccttgagagagcctcctccacacatgtgaccttgagacagctgac 5660
Db 301 aaagctcagctcagctcccttgagagagcctcctccacacatgtgaccttgagacagctgac 360
Oy 5661 aggccccagagacccacagagaggtctgcagagaggagctggccaccctgaggcggagcgg 5720
Db 361 aggccccagagacccacagagaggtctgcagagaggagctggccaccctgaggcggagcgg 420
Oy 5721 gaccagctcggaaccccaacacagagaggttgtagactgctcctcagcaacctctccggagac 5780
Db 421 gaccagctcggaaccccaacacagagaggttgtagactgctcctcagcaacctctccggagac 480
Oy 5781 aagtcagcttcggaagagagaaagcgaactaagcagaagaataagaaatctggccagg 5840
Db 481 aagtcagcttcggaagagagaaagcgaactaagcagaagaataagaaatctggccagg 540
Oy 5841 aggttcgaaagacagcagcagagaggttagcaagcttgagaaagggtgtccccaagcc 5900
Db 541 aggttcgaaagacagcagcagagaggttagcaagcttgagaaagggtgtccccaagacc 600
Oy 5901 cgaagacactgctcgagctgtgctgcccacagagctccagagaaggt 5942
Db 601 cgaagacactgctcgagctgtgctgcccacagagctccagagaaggt 642

RESULT 13
V81910 ID V81910 standard; cDNA: 1999 BP.
XX AC V81910;
XX DT 08-MAR-1999 (first entry)
XX DE Human trabecular meshwork induced glucocorticoid response protein cDNA.
XX KW Human; trabecular meshwork induced glucocorticoid response protein;
KW TIGR; glaucoma; primary open angle glaucoma; POAG; pigmentary glaucoma;
KW low tension glaucoma; intraocular pressure; steroid; corticosteroid; ss.
XX OS Homo sapiens.
XX FH Key Location/Qualifiers
XX FT CDS 37..1551
XX FT /*tag= a
XX PN US854415-A.
XX PD 29-DEC-1998.
XX PF 25-JUN-1997; 97US-0882238.
XX PR 17-MAY-1996; 96US-0649432.
XX PR 03-NOV-1994; 94US-0336235.
XX PR 20-OCT-1995; 95US-0546568.
```

PR 25-JUN-1997: 97US-0882238.  
 XX (REGC ) UNIV CALIFORNIA.  
 XX Huang W, Nguyen TD, Polansky JR;  
 PI WPI: 1999-095006/08.  
 DR P-PSDB; W89391.  
 XX  
 XX New, isolated glaucoma-associated nucleic acids - which encode  
 PT trabecular meshwork induced glucocorticoid response protein, used to  
 PT develop products for diagnosing glaucoma-related diseases  
 XX  
 PS Claim 1: Fig 1: 22pp: English.  
 XX  
 CC The present sequence encodes a human secretory protein from clone II.2.  
 CC The secretory protein is designated TIGR (Trabecular Meshwork Induced  
 CC Glucocorticoid Response) protein. The protein is highly induced by  
 CC glucocorticoids in the endothelial lining cells of the human trabecular  
 CC meshwork. The TIGR polynucleotides and proteins can be used as markers  
 CC for the diagnosis of glaucoma, primary open angle glaucoma (POAG),  
 CC pigmentary glaucoma, and low tension glaucoma and their related  
 CC diseases. They can also be used to diagnose or protect an individual's  
 CC sensitivity to elevated intraocular pressure upon administration of  
 CC steroids such as glucocorticoids or corticosteroids. These products can  
 CC also be used for diagnosing other diseases or conditions that affect the  
 CC expression or activity of the protein. The products can also be  
 CC formulated for administration to patients.  
 CC  
 XX Sequence 1999 BP; 537 A; 508 C; 534 G; 420 T; 0 other;

Query Match 10.4%; Score 640.4; DB 20: Length 1999;

Best Local Similarity 99.8%; Pred. No. 6.2e-139; Indels 0; Gaps 0;  
 Matches 641: Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 5301 agagcttcacaggaagagctccacacagctctgcaatgaggtctctctgtgcagcttgc 5360  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 DB 1 agagcttcacaggaagagctccacacagctctgcaatgaggtctctctgtgcagcttgc 60  
 OY 5361 tgcagcttgggctcagatgacagctgtccagctgtctgtcttctgtgcctgtgtgtg 5420  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 DB 61 tgcagcttgggctcagatgacagctgtccagctgtctgtcttctgtgcctgtgtgtg 120  
 OY 5421 gatgtggggccagagagctcagctcagagagagccaatgacccagatggccagatggcag 5480  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 DB 121 gatgtggggccagagagctcagctcagagagagccaatgacccagatggccagatggcag 180  
 OY 5481 tatacctcagctgtgagcagctcccaatgaaatccagctgtcccaagagcagagccatg 5540  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 DB 181 tatacctcagctgtgagcagctcccaatgaaatccagctgtcccaagagcagagccatg 240  
 OY 5541 tcagtcatacatactatcacagagagacagacagccacagctctagaccttggagggcacc 5600  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 DB 241 tcagtcatacatactatcacagagagacagacagccacagctctagaccttggagggcacc 300  
 OY 5601 aaagctcagatcagctccctcggagagagctctctccacaaatgacacttggagacagctgcc 5660  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 DB 301 aaagctcagatcagctccctcggagagagctctctccacaaatgacacttggagacagctgcc 360  
 OY 5661 agagccacagagagagagagagctcagagagagcttggagacacccctggagagcgagcg 5720  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 DB 361 agagccacagagagagagagagctcagagagagcttggagacacccctggagagcgagcg 420  
 OY 5721 gacacagctggaaacccacacacagagagcttggagacacccctcctccagagac 5780  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 DB 421 gacacagctggaaacccacacacagagagcttggagacacccctcctccagagac 480  
 OY 5781 aagtcagcttctggagagagagaaagagactaaagcagagaaatgtgaaacttggcagag 5840  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 DB 481 aagtcagcttctggagagagagaaagagactaaagcagagaaatgtgaaacttggcagag 540  
 OY 5841 aggtctggaagagcagcagcagagagctgagaaagggcgagctgcccacagacc 5900

DB 541 aggttgaaagcagcagcagagagctgagcaaggtgagaaagggccagctgcccagacc 600  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 OY 5901 cgagacacatgctcggagctgtgcacacagagctcagagaaagt 5942  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 DB 601 cgagacacatgctcggagctgtgcacacagagctcagagaaagt 642

RESULT 14

ID V08904 standard; CDNA: 1999 BP.

AC V08904;

DT 26-FEB-1999 (first entry)

DE TIGR protein coding sequence.

XX TIGR protein: trabecular meshwork induced glucocorticoid response;

KW secretory protein; antibody: glaucoma; diagnosis: ss.

XX Homo sapiens.

PN US849879-A.

PD 15-DEC-1998.

PF 14-MAY-1996; 96US-0645900.

PR 14-MAY-1996; 96US-0645900.

PR 03-NOV-1994; 94US-0336235.

PR 20-OCT-1995; 95US-0546568.

XX (REGC ) UNIV CALIFORNIA.

PI Huang W, Nguyen TD, Polansky JR;

DR WPI: 1999-069807/06.

XX Antibody to trabecular meshwork protein - useful for diagnosis of  
 PT glaucoma

PS Example 3: Column 27-30; 22pp: English.

CC This sequence encodes the human Trabecular meshwork induced

CC glucocorticoid response (TIGR) protein. The TIGR protein is a secretory

CC protein specifically bound by the antibody of the invention. The

CC antibody, especially in labeled form, can be used in the diagnosis of

CC glaucoma by detecting elevated levels of the protein in the trabecular

CC meshwork of the eye. Using the antibody, glaucoma is detected more

CC accurately.

XX Sequence 1999 BP; 537 A; 508 C; 534 G; 420 T; 0 other;

OY 5301 agagcttcacaggaagagctccacacagctctgcaatgaggtctctctgtgcagcttgc 5360

DB 1 agagcttcacaggaagagctccacacagctctgcaatgaggtctctctgtgcagcttgc 60

OY 5361 tgcagcttgggctcagatgacagctgtccagctgtctgtcttctgtgcctgtgtgtg 5420

DB 61 tgcagcttgggctcagatgacagctgtccagctgtctgtcttctgtgcctgtgtgtg 120

OY 5421 gatgtggggccagagagctcagctcagagagagccaatgacccagatggccagatggcag 5480

DB 121 gatgtggggccagagagctcagctcagagagagccaatgacccagatggccagatggcag 180

OY 5481 tatacctcagctgtgagcagctcccaatgaaatccagctgtcccaagagcagagccatg 5540

D	b	181	tatccctctgctggtgcgaattcccaatgaaattcgaactgtgccagagatgagccaggtccatg	240
O	y	554.1	tcagatcatccaataactatcacagagagacagcagccacacacgcctctagaccctggaggtccac	5600.0
D	b	24.1	tcactatcatccaataactatcacagagagacagcagccacacacgcctctagaccctggaggtccac	300
O	y	560.1	aaagactcgaacacagctccctcctgagagagctctccacacaaatttgaccttgagacacaggtctcc	5660.0
D	b	30.1	aaagactcgaacacagctccctcctgagagagctctccacacaaatttgaccttgagacacaggtctcc	360
O	y	566.1	aggtccccaagagagacccaagagaggtctgacagagagagctgagccaccttgaggtcggtgagagcg	5720.0
D	b	36.1	aggtccccaagagagacccaagagaggtctgacagagagagctgagccaccttgaggtcggtgagagcg	420
O	y	571.1	gaaccagctgagaaacccaacacagagagctgagagactgtcctacagaaacctctcccgagac	5780.0
D	b	42.1	gaaccagctgagaaacccaacacagagagctgagagagactgtcctacagaaacctctcccgagac	480
O	y	578.1	aaagcagactcctcgtgagagagagagaaagcagcctaaaggtccaaagaaaattgagatcttgccaggt	5840.0
D	b	48.1	aaagcagactcctcgtgagagagagagaaagcagcctaaaggtccaaagaaaattgagatcttgccaggt	540
O	y	584.1	aggtctggaaagcagacacacacacagaggtatgacagagagctctagaagaggtgcagagtctcccaagac	5900.0
D	b	54.1	aggtctggaaagcagacacacacacagaggtatgacagagagctctagaagaggtgcagagtctcccaagac	600
O	y	590.1	cgaagacacactgtctggtgctgtgtgccaacacaggtctccagagaaagt	5942
D	b	60.1	cgaagacacactgtctggtgctgtgtgccaacacaggtctccagagaaagt	642

RESULT	15
V33484	
ID	V33484 standard; cDNA; 2000 BP

XX	VJ3484;
AC	
DT	11-JAN-1999 (first entry)
XX	
DE	Tribecular meshwork induced glucocorticoid response* CDNA.
KM	Tribecular meshwork induced glucocorticoid response*; TIGR*
XX	human; glaucoma; diagnosis; ss.
OS	Homo sapiens.
XX	
FH	Location/Qualifiers
FT	CDS
FT	37..151
FT	/*tag- a
FT	/note= "the coding region (minus the stop codon) is also claimed (Claim 5)"
FT	s1g_peptide
FT	37..96
FT	/*tag- b
FT	mat_peptide
FT	97..1548
FT	/*tag- c
XX	
PN	W03844108-A1.
XX	
PD	08-OCT-1998.
XX	
PF	07-APR-1997; 97MO-US05801.
XX	
PR	01-APR-1997; 97MO-US05391.
PA	(REGC ) UNIV CALIFORNIA.
PI	
PI	Huang W, Nguyen TD, Polansky JR;
DR	WPI: 1998-542701/46.
DR	P-PSDB; W70496.
XX	
PT	New protein induced in trabecular meshwork cells by glucocorticoids - useful in the diagnosis of glaucoma and related diseases

XX Claim 6; Fig 1A-D; 53pp; English

CC This claimed nucleic acid molecule, the coding region of which is  
CC also claimed, codes for a new human protein (see W70499) designated  
CC trabecular meshwork induced glucocorticoid response (TIGR\*)  
CC protein, that is highly induced by glucocorticoids in the  
CC endothelial lining of the human trabecular meshwork (HWM). A  
CC subtraction screening procedure was used to clone the major  
CC dexamethasone-inducible cDNA of HWM cells. TIGR\* mRNA was the  
CC major induced species. TIGR\* cDNA, the protein itself, molecules  
CC that bind it, and nucleic acid molecules that encode it, provide  
CC improved methods and reagents for diagnosing glaucoma and related  
CC disorders, such as cardiovascular and immunological diseases that  
CC affect expression of TIGR\*. A claimed method of diagnosing glaucoma  
CC involves determining if the amount of TIGR\* present in the HWM  
CC exceeds the amount found in an individual not predisposed to the  
CC disease. Another claimed method involves obtaining a marker nucleic  
CC acid molecule that (a) is capable of hybridizing with one of the  
CC defined TIGR\* nucleotide sequences or its complement, and (b) will  
CC allow detection of a polymorphism affecting levels of TIGR protein,  
CC (ii) obtaining a complementary nucleic acid molecule from a cell or  
CC bodily fluid of the patient, (iii) incubating the above molecules  
CC under hybridization conditions, and (iv) detecting presence of  
CC the polymorphism, which is diagnostic of glaucoma. Fragments of  
CC TIGR\* polynucleotides can also be used as probes to obtain other  
CC TIGR\* nucleic acid molecules from other species.

.....  
SQ Sequence 2000 BP; 539 A; 507 C; 534 G; 420 T; 0 other;

Query Match	10.4%;	Score 640.4;	DB 19;	Length 2000;
Best Local Similarity	99.8%;	Pred. No. 6.2e-139;		
Matches 641;	Conservative 0;	Mismatches 1;	Indels 0;	Gaps 0

QY	5301	agagctctccagaggaagcctcaacccaagcctctcgacatgagttctctctgctgacagttgc	5360
Db	1	agagctctccagaggaagcctcaacccaagcctctcgacatgagttctctctgctgacagttgc	60
QY	5361	tgcagctcttgagccttgagatgcacagctgtctccagctctgctctctgctgcgcctgtgtg	5420
Db	61	tgcagctcttgagccttgagatgcacagctgtctccagctctgctctctgctgcgcctgtgtg	120
QY	5421	gattgtgagggccagagacagctcagctctcaggaagggccaatgatccagaagtgtgcccgaatgccaag	5480
Db	121	gattgtgagggccagagacagctcagctctcaggaagggccaatgatccagaagtgtgcccgaatgccaag	180
QY	5481	tatatcttcgaattgtgagccatctcccaatgaaatccagagctgctccagagacagagccagagccatg	5540
Db	181	tatatcttcgaattgtgagccatctcccaatgaaatccagagctgctccagagacagagccagagccatg	240
QY	5541	tcaagtcacatcaataactatcacgaaagacagacacccaacgctctagaccctgtgagggccac	5600
Db	241	tcaagtcacatcaataactatcacgaaagacagacacccaacgctctagaccctgtgagggccac	300
QY	5601	aaagctcgactcagctctccctcgagagcctctctccacaaattgaactttgacacagcctgc	5660
Db	301	aaagctcgactcagctctccctcgagagcctctctccacaaattgaactttgacacacagcctgc	360
QY	5661	agggcccaagagaaaccaagagagggctctgacagagggagctgtggacacctgaaggcgagagcgg	5720
Db	361	agggcccaagagaaaccaagagagggctctgacagagggagctgtggacacctgaaggcgagagcgg	420
QY	5721	gaaccaagctggaaaaccaaccaacagaaagctgtggagactcgtccataagcaaacctctccggagac	5780
Db	421	gaaccaagctggaaaaccaaccaacagaaagctgtggagactcgtccataagcaaacctctccggagac	480
QY	5781	aagcaccattctcgagagagaaagaaagcgacataagggcagaagaatactgagaaatctgtgccag	5840
Db	481	aagcaccattctcgagagagaaagaaagcgacataagggcagaagaatactgagaaatctgtgccag	540
QY	5841	aggtctggaagaagcagacagcccaagagagctagacaaagctgtgagaagggccaaagtctccagacc	5900

Db 541 aggttggaagcagcagcaggaagtagcaaggctgagaaggggccagtgltcccagacc 600  
QY 5901 cgaagacactgctcgggctgtgcccacagagctccagagaaagt 5942  
|||||  
Db 601 cgaagacactgctcgggctgtgcccacagagctccagagaaagt 642  
|||||

Search completed: December 3, 2000, 19:31:01  
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